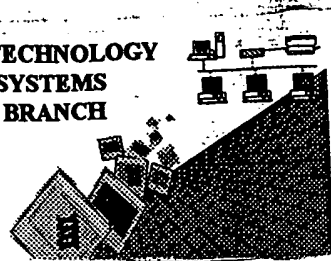


Brannock

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/535,814C
Source: 1600 RUSH
Date Processed by STIC: 6/10/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom:

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/535,814C

DATE: 06/10/2002

TIME: 15:44:48

Input Set : A:\EP.txt

Output Set: N:\CRF3\06102002\I535814C.raw

Does Not Comply
Corrected Diskette Needed

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C--> 6 <141> CURRENT FILING DATE: 2000-03-28
W--> 0 <110> APPLICANT:
W--> 0 <120> TITLE INVENTION:
W--> 0 <130> FILE REFERENCE:
E--> 6 <160> NUMBER OF SEQ ID NOS: NUMBER OF SEQ ID NOS: 3

ERRORED SEQUENCES

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9 <211> LENGTH: LENGTH: 313
E--> 10 <212> TYPE: TYPE: PRT
11 <213> ORGANISM: ORGANISM: Canis familiaris
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16 1 5 10 15
18 Gly Leu Pro Ile Asp Pro Asp Gln Arg Asp Leu Phe Tyr Ala Leu
E--> 19 16 20 25 30
21 Phe Leu Ala Met Tyr Val Thr Thr Ile Leu Gly Asn Leu Leu Ile
E--> 22 31 35 40 45
24 Ile Val Leu Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr
E--> 25 46 50 55 60
27 Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser
E--> 28 61 65 70 75
30 Val Thr Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro
E--> 31 76 80 85 90
33 Ser Ile Pro Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Phe Leu
E--> 34 91 95 100 105
36 Phe Phe Gly Asp Leu Glu Ser Phe Leu Leu Val Ala Met Ala Tyr
E--> 37 106 110 115 120
39 Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His Tyr Thr Thr Ile
E--> 40 121 125 130 135
42 Met Ser Pro Lys Leu Cys Phe Ser Leu Leu Val Leu Ser Trp Val
E--> 43 136 140 145 150
45 Leu Thr Met Phe His Ala Val Leu His Thr Leu Leu Met Ala Arg
E--> 46 151 155 160 165
48 Leu Cys Phe Cys Ala Asn Thr Ile Pro His Phe Phe Cys Asp Met
E--> 49 166 170 175 180
51 Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr Gln Val Asn Glu
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54 Leu Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
E--> 55 196 200 205 210

*See following
pages*

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SEQUENCE LISTING

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Met Thr Glu Lys Asn Gln Thr Val Val Ser Glu Phe Val Leu Leu
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Gly Leu Pro Ile Asp Pro Asp Gln Arg Asp Leu Phe Tyr Ala Leu
16 20 25 30

Phe Leu Ala Met Tyr Val Thr Thr Ile Leu Gly Asn Leu Leu Ile
31 35 40 45

Ile Val Leu Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr
46 50 55 60

Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser
61 65 70 75

Val Thr Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro
76 80 85 90

Ser Ile Pro Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Phe Leu
91 95 100 105

Phe Phe Gly Asp Leu Glu Ser Phe Leu Leu Val Ala Met Ala Tyr
106 110 115 120

Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His Tyr Thr Thr Ile
121 125 130 135

Met Ser Pro Lys Leu Cys Phe Ser Leu Leu Val Leu Ser Trp Val
136 140 145 150

Leu Thr Met Phe His Ala Val Leu His Thr Leu Leu Met Ala Arg
151 155 160 165

Leu Cys Phe Cys Ala Asn Thr Ile Pro His Phe Phe Cys Asp Met
166 170 175 180

Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr Gln Val Asn Glu
181 185 190 195

Leu Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
196 200 205 210

Leu Leu Ile Ile Thr Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu
211 215 220 225

Lys Val Pro Ser Ala Ile Gly Ile Cys Lys Val Phe Ser Thr Cys
226 230 235 240

Insert these mandatory numeric identifiers and their responses
show only numeric identifiers and their responses
(do not show alphabetical headings)

Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile
 241 245 250 255

Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu
 256 260 265 270

Thr Ile Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn
 271 275 280 285

Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu
 286 290 295 300

Arg Arg Val Ile Cys Arg Lys Lys Ile Thr Phe Ser Val
 301 305 310

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<213> ~~ORGANISM~~: Canis familiaris

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<210> ~~SEQ ID NO~~ 3

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Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Ala
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Please consult sample Sequence Listing
 (attached) for valid format

<110> Smith, John; Smithgene Inc.
 <120> Example of a Sequence Listing
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 <141> 1998-12-31
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 <213> Paramecium sp.
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 <222> (279)...(389)
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 <302> Isolation and Characterization of a Gene Encoding a
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 <303> Journal of Genes
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 tgatgtggca attgctggca gtgccacagg ctcttcagcc aggccttaggg tgggttcgcg 180
 cgcggcgcgg cggccctctt cgcgctctct tcgcgcctct ctctcgctct cctctcgctc 240

Please consult

Appendix 3, page 2

ggacctgatt aggtgagcag gaggagggggg cagtttagc atg gtt tca atg ttc agc 296
Met Val Ser Met Phe Ser
5

ttg	tct	ttc	aaa	tgg	cct	gga	ttt	tgt	ttg	ttt	gtt	tgt	ttg	ttc	caa	344
Leu	Ser	Phe	Lys	Trp	Pro	Gly	Phe	Cys	Leu	Phe	Val	Cys	Leu	Phe	Gln	
			10					15					20			

tgt	ccc	aaa	gtc	ctc	ccc	tgt	cac	tca	tca	ctg	cag	ccg	aat	ctt			
Cys	Pro	Lys	Val	Leu	Pro	Cys	His	Ser	Ser	Leu	Gln	Pro	Asn	Leu			389
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20 25 30

Leu Gln Pro Asn Leu
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<210>      }
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<213>      Artificial Sequence

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[Annex VIII follows]

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

Numeric Identifier	Definition	Comments and Format	Mandatory (M) or Optional (O)
<110>	Applicant	Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials	M
<120>	Title of Invention		M
<130>	File Reference	Personal file reference	M, when filed prior to assignment of appl. number
<140>	Current Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if available
<141>	Current Filing Date	Specify as: yyyy-mm-dd	M, if available
<150>	Prior Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under 35 USC 119 and 120
<151>	Prior Application Filing Date	Specify as: yyyy-mm-dd	M, if applicable
<160>	Number of SEQ ID NOs	Count includes total number of SEQ ID NOs	M
<170>	Software	Name of software used to create the Sequence Listing	O
<210>	SEQ ID NO: #:	Response shall be an integer representing the SEQ ID NO shown	M
<211>	Length	Respond with an integer expressing the number of bases or amino acid residues	M

<212>	Type	Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section.	
<213>	Organism	Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section.	M
<220>	Feature	Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<221>	Name/Key	Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence
<222>	Location	Specify location within sequence; where appropriate state number of first and last bases/amino acids	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified

in feature

was used in
sequence

<223>

Other Infor-
mation

Other relevant
information;
four lines maximum

M, under the fol-
lowing conditions:
if "n," "Xaa," or
a modified or un-
usual L-amino acid
or modified base
was used in a
sequence; if
ORGANISM
is "Artificial
Sequence" or
"Unknown"; if
molecule is com-
bined DNA/RNA.

<300>

Publication
Information

Leave blank;
after <300>

0

<301>

Authors

Preferably max
of ten named
authors of publi-
cation; specify
one name per line;
preferable format:
Surname, Other
Names and/or
Initials

0

<302>

Title

0

<303>

Journal

0

<304>

Volume

0

<305>

Issue

0

<306>

Pages

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<307>

Date

Journal date on which
data published;
specify as yyyy-mm-
dd, MM-yyyy or
Season-yyyy

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<308>

Database
Accession
Number

Accession number
assigned by data-
base including
database name

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<309>

Database Entry
Date

Date of entry in
database; specify
as yyyy-mm-dd or
MM-yyyy

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<310>

Patent Document
Number

Document number;
for patent-type
citations only.
Specify as, for
example, US
07/999,999

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<311>	Patent Fil Date	Document filing date, for patent- type citations only; specify as yyyy-mm-dd	0
<312>	Publication Date	Document publication date, for patent-type citations only; specify as yyyy-mm-dd.	0.
<313>	Relevant Residues	FROM (position) TO (position)	0
<400>	Sequence	SEQ ID NO should follow the numeric identifier and should appear on the line pre- ceding the actual sequence	M

5. Section 1.024 is revised to read as follows:

1.024 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.021(c) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;